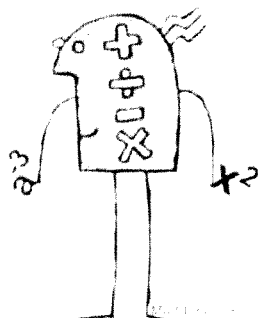


Exponents

Name _____

Directions: Choose the correct letter answer to each question. Use the letters to decode the hidden message. Remember to use the properties of exponents as you work.



3 5 16 1 10 13 15 14 16 4 9 13 16
5 15 14 16 1 8 2 12 14 9 2
6 8 16 16 8 2 7 14 2 11 !

1. Which choice is equivalent to $\left(\frac{1}{3}\right)^3$?

E. $\frac{1^3}{3^3}$ F. $\frac{1}{3^3}$ G. $\frac{1}{27}$ H. All choices

2. Which choice is equivalent to $\frac{3^3}{6^2}$?

A. $\frac{9}{36}$ R. $\frac{3}{4}$ Q. $\frac{3}{2}$ S. $\frac{1}{4}$

3. Which choice is NOT equivalent to $\frac{3^3}{3^5}$?

D. $\frac{27}{243}$ S. $\frac{1}{3^2}$ M. $\frac{1}{27}$ H. $\frac{1}{9}$

4. Which choice is equivalent to 7^0 ?

D. 1 E. $\frac{7^2}{7^2}$ C. $\frac{49}{49}$ J. All choices

5. Which choice is equivalent to $\left(\frac{1}{8}\right)^2$?

R. 64 S. 16 A. $\frac{1}{64}$ T. $\frac{1}{16}$

6. Which choice is equivalent to $(4^2)(4^3)$?

B. 4^6 L. 4^5 I. 64 P. 16

7. Which choice is equivalent to $(3^2)^3$?

U. 3^5 W. 3^6 I. 3^9 S. None

8. Which choice is equivalent to $4^0 \cdot \frac{1}{4}$?

C. 0 D. 1 E. $\frac{1}{4}$ F. 4

9. Which choice is equivalent to -2^4 ?

U. -16 V. 16 X. -8 Y. 8

10. Which choice is equivalent to $(-2)^4$?

J. -8 K. 8 L. 16 P. -16

11. Which choice is equivalent to 1^{98} ?

C. 0 D. 1 E. 98 F. -1

12. Which choice is equivalent to $3^0 \cdot 3^2$?

E. 1 F. 9 G. 0 H. None

13. Which choice is equivalent to $\left(\frac{2}{3}\right)^2$?

P. $\frac{4}{6}$ Q. $\frac{1}{3}$ R. $\frac{3}{9}$ S. $\frac{4}{9}$

14. Which choice is equivalent to $-(4)^3$?

P. -12 B. 12 O. -64 T. 64

15. Which choice is equivalent to 1?

G. $\frac{3^2}{3^2}$ L. $\frac{2^4}{16}$ M. 298^0 N. All choices

16. Which choice is equivalent to 4?

C. $\frac{2^3}{2^2}$ A. $\frac{8^2}{8^0}$ T. $\frac{4^3}{2^4}$ S. $\frac{1^0}{5^2}$